

NOTES ON SOME NEW ZEALAND PLEUROTOMIDÆ.

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THERE has been considerable confusion about three species, viz.: *Pleurotoma Buchanani*, Hutton, 1873; *Pleurotoma Trailli*, Hutton, 1873; and *Drillia* (?) *Maorum*, E. A. Smith, 1877. I have lately been studying these forms, and propose the following towards an elucidation of the complication:—

1. SURCULA BUCHANANI, Hutton, subsp. MAORUM, E. A. Smith.

Drillia (?) *Maorum*, E. A. Smith: Ann. Mag. Nat. Hist. (4), vol. xix (1877), p. 497.

Drillia Buchanani, Hutton: Journ. de Conch., vol. xxvi (1878), p. 16 (not of Cat. Tert. Moll.).

Pleurotoma Buchanani, Hutton: Man. N. Zeal. Moll., 1880, p. 42 (not of Cat. Tert. Moll.).

Drillia Maorum, Hutton: l.c., p. 44.

Pleurotoma Buchanani, Tryon: Man. Conch. (1), vol. vi, p. 208 (not of Cat. Tert. Moll.).

Drillia (?) *Maorum*, Hutton: Proc. Linn. Soc. N.S. Wales (1), vol. x (1886), p. 116.

Surcula Trailli, Suter: Trans. N. Zeal. Inst., vol. xxxi (1899), p. 90; l.c., vol. xxxiv (1902), p. 211; Index Faunæ Nov. Zeal., 1904, p. 71.

There can be no doubt that E. A. Smith's *D. Maorum* is very much like *P. Buchanani*, Hutton, of the Cat. Tert. Moll., but it is not absolutely the same. The former is more slender, the whorls in consequence appear rather higher, the width of the body-whorl is less, and the canal is shorter. The margination of the suture is generally, but not always, slighter. The special sculpture and the number of longitudinal costæ are somewhat variable in both species. The angle of the spire I found on an average to be 29° in *Maorum*, and 32° in the Pliocene *Buchanani*. Carefully taken measurements of the two species gave the following result:—

	<i>Maorum</i> .	<i>Buchanani</i> .
Total length	21 mm.	21 mm.
Length from base to middle of first suture ...	12.5 ,,	13 ,,
Length of aperture	10 ,,	10 ,,
Length of spire	12 ,,	12 ,,
Width of body-whorl	6.5 ,,	7.5 ,,

The differences between the two are too slight to separate them as different species, and I therefore propose to make *Maorum* a subspecies of *Buchanani*.

Tryon and Hutton made *P. Trailli*, Hutton, a synonym of *D. Maorum*, and I followed them in 1899 and later publications. This, however, was a mistake, as will be seen presently.

Type in the British Museum.

2. SURCULA TRAILLI (Hutton).

Pleurotoma Trailli, Hutton: Cat. Mar. Moll. New Zeal., 1873, p. 11.

Drillia æmula, Angas: Proc. Zool. Soc., 1877, p. 36, pl. v, fig. 9.

Drillia bætica, Hutton: Journ. de Conch., vol. xxvi (1878), p. 16 (not of Reeve).

Pleurotoma Trailli, Hutton: Man. N. Zeal. Moll., 1880, p. 42.

Drillia Trailli, Tryon: Man. Conch. (1), vol. vi, p. 206.

Drillia (?) *Maorum*, Hutton: Proc. Linn. Soc. N.S. Wales (1), vol. x (1886), p. 116 (not of Smith).

Surcula Trailli, Suter: Trans. N. Zeal. Inst., vol. xxxi (1899), p. 90; l.c., vol. xxxiv (1902), p. 211; Index Faunæ Nov. Zeal., 1904, p. 71.

Although the sculpture of the shell is generally the same as in *Buchanani* and *Maorum*, yet the dimensions are very different:—

		<i>Trailli</i> .		<i>Buchanani</i> .		<i>Maorum</i> .
Length	...	28 mm.	...	21 mm.	...	21 mm.
Breadth	...	10·5 „	...	7·5 „	...	6·5 „

The angle of the spire is 30°.

Some months ago I saw for the first time the type-specimen of Hutton's *P. Trailli*, and I at once saw that I was greatly mistaken in judging this species to be synonymous with *D. Maorum*, E. A. Smith.

Comparing the description of *Drillia æmula*, Angas, of which specimens from New Zealand are in the British Museum, I come to the conclusion that it is beyond a doubt the same species as *P. Trailli*, Hutton. If the figure represents the natural size of the shell, then it also agrees in its dimensions with Hutton's species, for it has length 27, breadth 10 mm. The diagnosis gives the length as 27, the breadth as 8·5 mm., but the latter can hardly be correct.

Hab.—Stewart Island.

Type in the Colonial Museum, Wellington, New Zealand.